

L4: Entry 52 of 54

File: DWPI

Jan 28, 1974

DERWENT-ACC-NO: 1974-12521V  
 DERWENT-WEEK: 197407  
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TITLE: Fluorescent substance - gives orange emission by activation with electron rays

PRIORITY-DATA: 1969JP-0082183 (October 16, 1969)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 74003631 B	January 28, 1974		000	

INT-CL (IPC): C09K 1/68

ABSTRACTED-PUB-NO: JP 74003631B

BASIC-ABSTRACT:

Terbium yttrium aluminate (Tb<sub>1-x</sub>Y<sub>x</sub>)<sub>3</sub>Al<sub>5</sub>O<sub>12</sub>, where  $0 < x < 0.6$ , is activated with cerium, whereby the Ce is not >30% of the total amt. of Tb and Y. The emission energy distribution of the fluorescent substance is the same as in cerium-activated terbium aluminate fluorescent substance, but as compared thereto, shows high luminescence. When the value of x in the compsn. >0.4, Tb acts not only as an activator but also as a mother substance so that the emission energy distribution curve and emission colour change. The prefd. calcination temp. is 1300-1500 degrees C.

Doc | Pub | Family | Pat | Abstr | Info | Date | Abstract | Report | Abstract

Doc | Pub | Family | Pat | Abstr | Info | Date | Abstract | Report | Abstract

☐ 53. Document ID: JP 74003630 B

L4: Entry 53 of 54

File: DWPI

Jan 28, 1974

DERWENT-ACC-NO: 1974-12520V  
 DERWENT-WEEK: 197407  
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TITLE: Fluorescent compsn mfr - contg Y activated with Te and Ce

PRIORITY-DATA: 1969JP-0082182 (October 16, 1969)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 74003630 B	January 28, 1974		000	

INT-CL (IPC): C09K 1/68

ABSTRACTED-PUB-NO: JP 74003630B

BASIC-ABSTRACT:

Yttrium aluminate (Y<sub>3</sub>Al<sub>5</sub>O<sub>12</sub>) is activated with terbium and cerium, but is not >30 mole % w.r.t. yttrium. The cpd. is then activated with electron rays to emit a yellow green colour but with extremely short after glow. Yttrium, cerium, and terbium, oxides or oxalates obtd. by copptn. are prefd. Al, oxide, hydroxide or nitrate are prefd. When terbium >30 mole %, it acts as mother substance so that the emitted colour is different. The prefd. calcination temp. is 1200-1500 degrees C. for 2 hrs.

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49 89 50032999

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USE/ADVANTAGE - Isolator or switch in visible or IR spectra. High isolation is achieved and undesirable oscillation avoided. (13pp)d

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☐ 39. Document ID: JP 74003629 B

L1: Entry 39 of 39

File: DWPI

Jan 28, 1974

DERWENT-ACC-NO: 1974-12519V

DERWENT-WEEK: 197407

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TITLE: Fluorescent cpd mfr - contg terbium aluminate

PRIORITY-DATA: 1969JP-0081158 (October 13, 1969)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 74003629 B

January 28, 1974

000

INT-CL (IPC): C09K 1/68

ABSTRACTED-PUB-NO: JP 74003629B

BASIC-ABSTRACT:

Method comprises activating terbium aluminate is produced by mixing oxides or oxalates of cerium and cerium with oxides, hydroxides or nitrates of aluminium, and calcining in air. The amt. of cerium which is added is 0.3-0.001 mole to 1 mole of terbium. The and an orange colour is emitted

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53. Document ID: JP 74003630 B

L4: Entry 52 of 54

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Jan 28, 1974

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DERWENT-WEEK: 197407

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INT-CL (IPC): C09K 1/68

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## BASIC-ABSTRACT:

Terbium yttrium aluminate (Tb<sub>1-x</sub>Y<sub>x</sub>)<sub>3</sub>Al<sub>5</sub>O<sub>12</sub>, where  $0 < x < 0.6$ , is activated with cerium, whereby the Ce is not >30% of the total amt. of Tb and Y. The emission energy distribution of the fluorescent substance is the same as in cerium-activated terbium aluminate fluorescent substance, but as compared thereto, shows high luminescence. When the value of x in the compsn. >0.4, Tb acts not only as an activator but also as a mother substance so that the emission energy distribution curve and emission colour change. The prefd. calcination temp. is 1300-1500 degrees C.

End | Title | Summary | Detail | Abstract | Publication | Date | References | Signatures | Attachments

2003 | Doc. Type | Index



53. Document ID: JP 74003630 B

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INT-CL (IPC): C09K 1/68

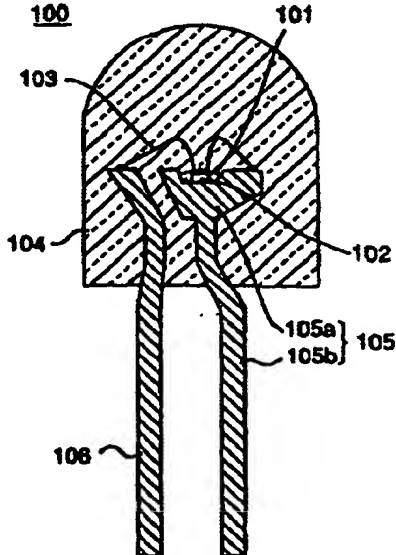
ABSTRACTED-PUB-NO: JP 74003630B

## BASIC-ABSTRACT:

Yttrium aluminate (Y<sub>3</sub>Al<sub>5</sub>O<sub>12</sub>) is activated with terbium and cerium, but is not >30 mole % w.r.t. yttrium. The cpd. is then activated with electron rays to emit a yellow green colour but with extremely short after glow. Yttrium, cerium, and terbium, oxides or oxalates obt'd. by copptn. are prefd. Al, oxide, hydroxide or nitrate are prefd. When terbium >30 mole %, it acts as mother substance so that the emitted colour is different. The prefd. calcination temp. is 1200-1500 degrees C. for 2 hrs.

PCT

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国際事務局  
特許協力条約に基づいて公開された国際出願

(51) 国際特許分類6 H01L 33/00	A1	(11) 国際公開番号 WO98/05078  (43) 国際公開日 1998年2月5日(05.02.98)
(21) 国際出願番号 PCT/JP97/02610 (22) 国際出願日 1997年7月29日(29.07.97) (30) 優先権データ 特願平8/198585 1996年7月29日(29.07.96) JP 特願平8/244339 1996年9月17日(17.09.96) JP 特願平8/245381 1996年9月18日(18.09.96) JP 特願平8/359004 1996年12月27日(27.12.96) JP 特願平9/81010 1997年3月31日(31.03.97) JP (71) 出願人 日亜化学工業株式会社 (NICHIA KAGAKU KOGYO KABUSHIKI KAISHA)(JP/JP) 〒774 徳島県阿南市上中町岡491番地100 Tokushima, (JP) (72) 発明者 清水龍則(SHIMIZU, Yoshinori) 阪野顕正(SAKANO, Kensho) 野口泰延(NOGUCHI, Yasunobu) 森口敏生(MORIGUCHI, Toshio) 〒774 徳島県阿南市上中町岡491番地100 日亜化学工業株式会社内 Tokushima, (JP)	(74) 代理人 弁理士 青山 茂 外(AOYAMA, Tamotsu et al.) 〒540 大阪府大阪市中央区城見1丁目3番7号 IMPビル 青山特許事務所 Osaka, (JP) (81) 指定国 AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO特許 (GH, KE, LS, MW, SD, SZ, UG, ZW), ユーラシア特許 (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), 欧州特許 (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI特許 (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).  添付公開書類 国際調査報告書	
<p>(54)Title: LIGHT EMITTING DEVICE AND DISPLAY DEVICE</p> <p>(54)発明の名称 発光装置と表示装置</p> <p>(57) Abstract A light emitting device provided with a light emitting element having a semiconductor light emitting layer and a photoluminescence fluorophor which absorbs part of the light emitted from the light emitting element and emits light having a wavelength which is different from that of the absorbed light. The light emitting layer of the light emitting element is composed of a nitride compound semiconductor and the photoluminescence fluorophor contains a garnet-based fluorophor activated with cerium containing at least one element selected from among the elements of Y, Lu, Sc, La, Gd, and Sm and at least one element selected from among the elements of Al, Ga and In. As a result, a white light emitting diode having high luminance and a light emitting characteristic which is not deteriorated even when the diode is used for a long period of time is obtained.</p> 		

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USE/ADVANTAGE - Isolator or switch in visible or IR spectra. High isolation is achieved and undesirable oscillation avoided. (13pp)d

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☐ 39. Document ID: JP 74003629 B

L1: Entry 39 of 39

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DERWENT-ACC-NO: 1974-12519V

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INT-CL (IPC): C09K 1/68

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53. Document ID: JP 74003630 B

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Pub | Title | Abstract | Pub No | Pub Date | Language | Pages | Main-IPC | Abstracted-Pub No

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☐ 53. Document ID: JP 74003630 B

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DERWENT-ACC-NO: 1974-12520V

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PRIORITY-DATA: 1969JP-0082182 (October 16, 1969)

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<p>(21) 国際出願番号 PCT/JP97/02610</p> <p>(22) 国際出願日 1997年7月29日(29.07.97)</p> <p>(30) 優先権データ</p> <table border="0"><tr><td>特願平8/198585</td><td>1996年7月29日(29.07.96)</td><td>JP</td></tr><tr><td>特願平8/244339</td><td>1996年9月17日(17.09.96)</td><td>JP</td></tr><tr><td>特願平8/245381</td><td>1996年9月18日(18.09.96)</td><td>JP</td></tr><tr><td>特願平8/359004</td><td>1996年12月27日(27.12.96)</td><td>JP</td></tr><tr><td>特願平9/81010</td><td>1997年3月31日(31.03.97)</td><td>JP</td></tr></table> <p>(71) 出願人 日亜化学工業株式会社 (NICHIA KAGAKU KOGYO KABUSHIKI KAISHA)[JP/JP] 〒774 徳島県阿南市上中町岡491番地100 Tokushima, (JP)</p> <p>(72) 発明者 清水雄則(SHIMIZU, Yoshinori) 坂野順正(SAKANO, Kensho) 野口泰延(NOGUCHI, Yasunobu) 森口敏生(MORIGUCHI, Toshio) 〒774 徳島県阿南市上中町岡491番地100 日亜化学工業株式会社内 Tokushima, (JP)</p>	特願平8/198585	1996年7月29日(29.07.96)	JP	特願平8/244339	1996年9月17日(17.09.96)	JP	特願平8/245381	1996年9月18日(18.09.96)	JP	特願平8/359004	1996年12月27日(27.12.96)	JP	特願平9/81010	1997年3月31日(31.03.97)	JP	<p>(74) 代理人 弁理士 青山 茂 外(AOYAMA, Tamotsu et al.) 〒540 大阪府大阪市中央区城見1丁目3番7号 IMPビル 青山特許事務所 Osaka, (JP)</p> <p>(81) 指定国 AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO特許 (GH, KE, LS, MW, SD, SZ, UG, ZW), ユーラシア特許 (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), 欧州特許 (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI特許 (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p>添付公開書類 国際調査報告書</p>
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Eur päisches Patentamt  
European Patent Office  
Office européen des brevets

11 Publication number:

0 124 175  
A1

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# EUROPEAN PATENT APPLICATION

21 Application number: 84200580.3

21 Int. Cl.<sup>2</sup>: H 01 J 61/44

22 Date of filing: 24.04.84

23 Priority: 25.04.83 NL 8301445

27 Applicant: N.V. Philips' Gloeilampenfabrieken,  
Groenewoudseweg 1, NL-5821 BA Eindhoven (NL)

24 Date of publication of application: 07.11.84  
Bulletin 84/45

28 Inventor: Van Kemenade, Johannes Trudo Cornelis, c/o  
INT. OCTROOIBUREAU B.V. Prof. Holstlaan 6,  
NL-5656 AA Eindhoven (NL)  
Inventor: De Haer, Johannes Theodorus Wilhelmus, c/o  
INT. OCTROOIBUREAU B.V. Prof. Holstlaan 6,  
NL-5656 AA Eindhoven (NL)  
Inventor: Berns, Everhardus Gradus, c/o INT.  
OCTROOIBUREAU B.V. Prof. Holstlaan 6, NL-5656 AA  
Eindhoven (NL)

26 Designated Contracting States: AT BE CH DE FR GB IT  
LI NL SE

29 Representative: Evers, Johannes Hubertus Marie et al,  
INTERNATIONAAL OCTROOIBUREAU B.V. Prof.  
Holstlaan 6, NL-5656 AA Eindhoven (NL)

30 Low-pressure mercury vapour discharge lamp.

31 A low-pressure mercury vapour discharge lamp having  
a very satisfactory colour rendition, ( $R(a,b) \geq 85$ ), a colour  
temperature of 2300-3300 K and a colour point on or near  
the Planckian curve. The lamp is provided with a lumines-  
cent layer comprising:

a, a luminescent alkaline earth metal halophosphate  
activated by  $Sb^{3+}$  and  $Mn^{2+}$  having a colour temperature of  
2900-5000 K;

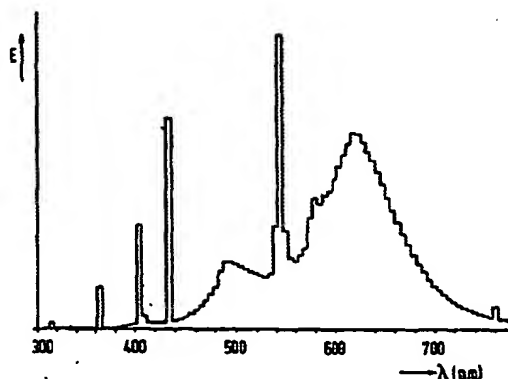
b, a luminescent material activated by  $Eu^{2+}$  with an  
emission maximum van 470-500 nm and a half-value width  
of at most 90 nm, and

c, a luminescent rare earth metal metaborate activated  
by  $Ce^{3+}$  and  $Mn^{2+}$ , having a fundamental lattice Ln (Mg, Zn,  
Cd)  $B_2O_3$  in which Ln represents the elements Y, La and/or  
Gd, which borate has red  $Mn^{2+}$  emission.

Further, the lamp is provided with means for absorbing  
blue radiation having wavelengths below 480 nm. Prefer-  
ably, the luminescent layer further contains:

d, a luminescent material activated by  $Tb^{3+}$  which ex-  
hibits green  $Tb^{3+}$  emission.

Besides a very satisfactory colour rendition at a low col-  
our temperature, these lamps have a high luminous flux and  
a high maintenance of the luminous flux during their life.



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USE/ADVANTAGE - Isolator or switch in visible or IR spectra. High isolation is achieved and undesirable oscillation avoided. (13pp)d

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